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(54) Title: MODIFIED MOLECULAR ARRAYS

(57) Abstract: The invention relates to the preparation of a hydrogel surface useful in the formation and manipulation of arrays of molecules, particularly polynucleotides and to the chemical modification of these and other arrays. In particular, the invention relates to a method of preparing a hydrogel immobilised to a solid support comprising polymerising on the support a mixture of a first comonomer which is acrylamide, methacrylamide, hydroxyethyl methacrylate or N-vinyl pyrrolidinone and a second comonomer which is a functionalised acrylamide or acrylate.

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